

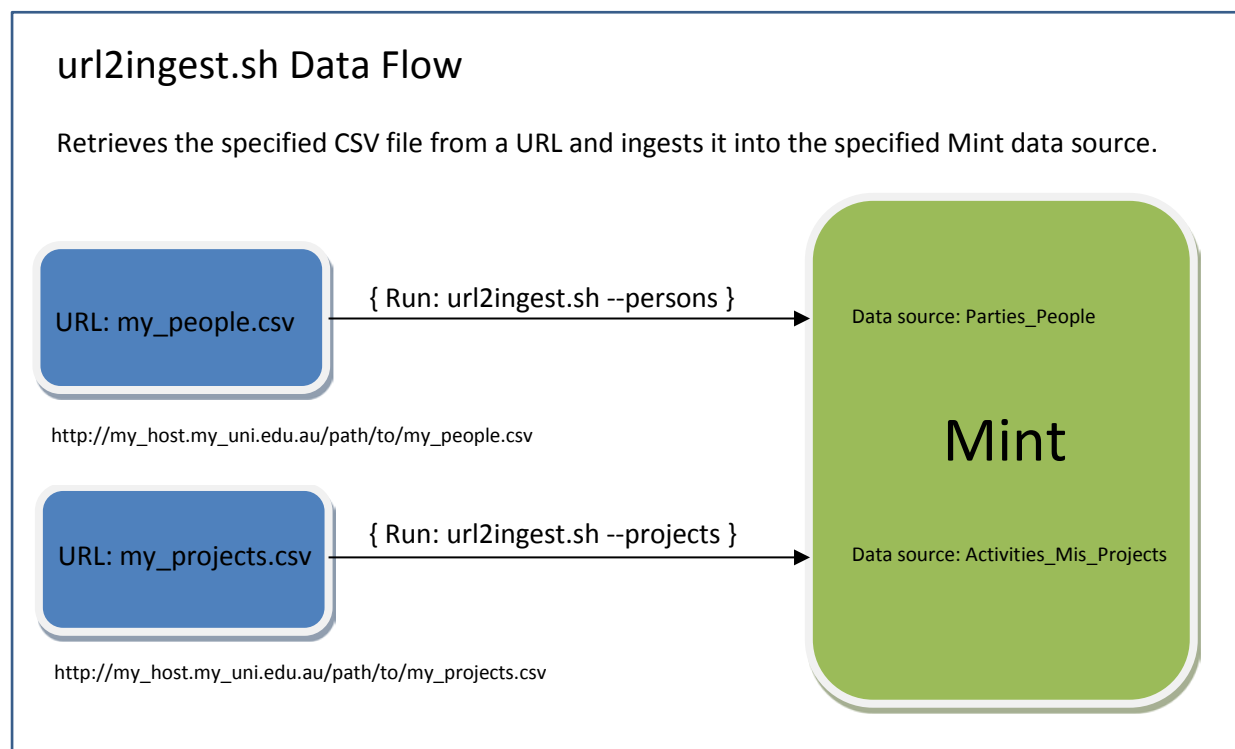
## FlindersRedbox-url2ingest: Development documentation

See the INSTALL document for information regarding application environment, installation and configuration.

Although the script is written in bash, it is expected that it will operate with little or no modification under sh and ksh shells.

### Data Flow

Unless incremental-load is specified on the command line, there is no data transformation performed by the script. If incremental-load is specified (not shown in the diagram below) the data loaded into Mint is filtered to leave only new or updated records. The script data flow diagram is shown below.



## High level algorithm

The following high level algorithm is used in the url2ingest.sh script.

```
Read command line arguments and initialise URL, data source, etc variables.
Get CSV file from URL and store in download directory.

IF full load argument specified THEN
  Apply an inclusive-filter (leave the filtered CSV file at $FILTERED_FPATH).
  Load CSV file into Mint data source (if any data records). [1]

ELSEIF incremental load argument specified THEN
  Find the most recent full-CSV file.
  Extract new and updated CSV records (compared with most recent full-CSV file).

  IF there are any new or updated records THEN
    Apply an inclusive-filter (leave the filtered CSV file at $FILTERED_FPATH).
    Load CSV file into Mint data source (if any data records). [1]
    Backup this incremental-CSV file to history directory.
  ENDIF

ENDIF

IF the CSV-load was successful THEN
  Backup this full-CSV file to history directory.
ENDIF

IF the CSV-load was attempted (successful or not) THEN
  Backup Mint harvest.out file into log directory.
ENDIF
Clean up download directory, working directory, etc.
```

## Notes

[1] A symbolic link from the CSV file in the Mint tree must be configured in advance to point to the appropriate FILTERED\_FPATH (ie. PERSON\_FILTERED\_FPATH or PROJECT\_FILTERED\_FPATH) for the data source.